**Fig. 1**

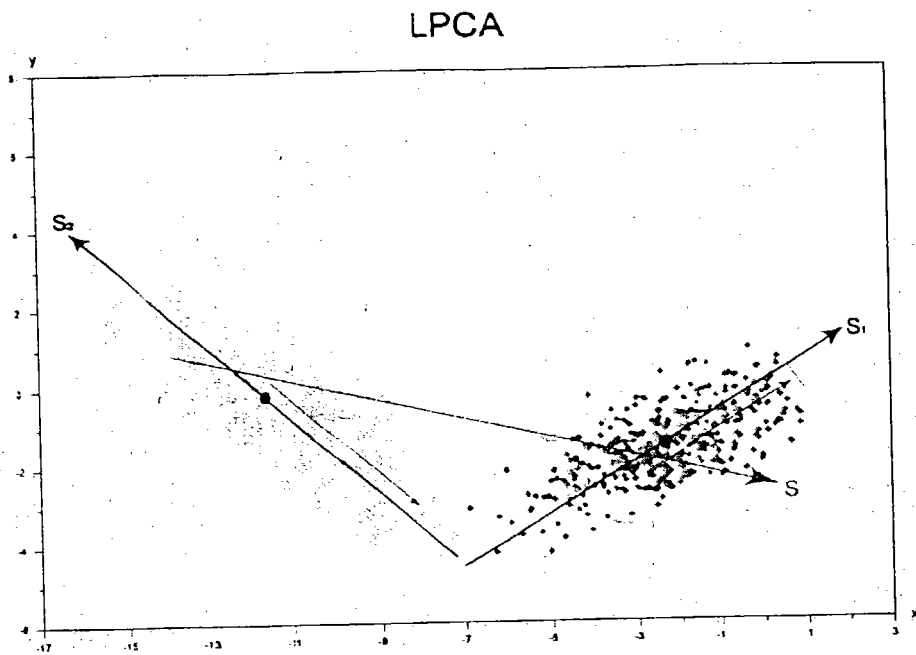


Fig. 2

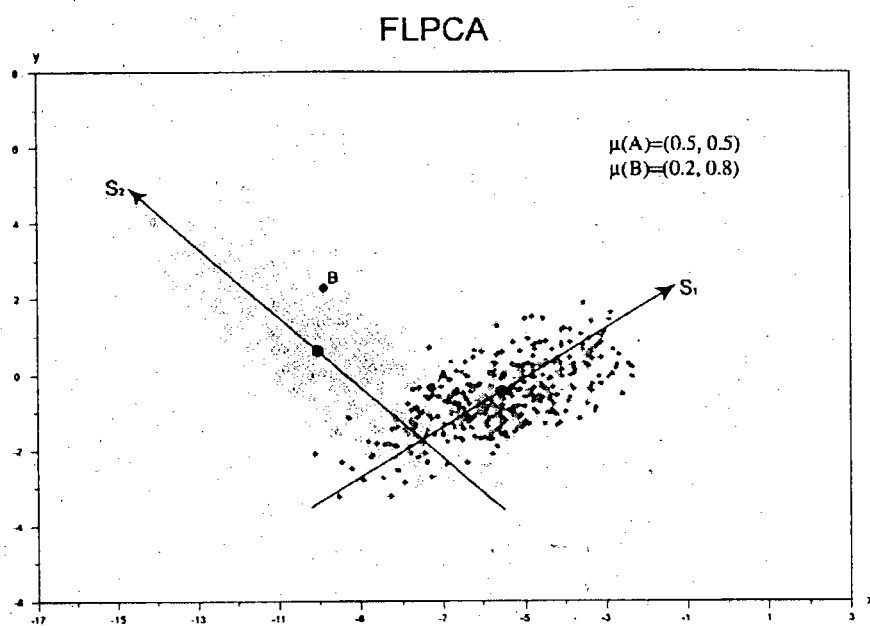
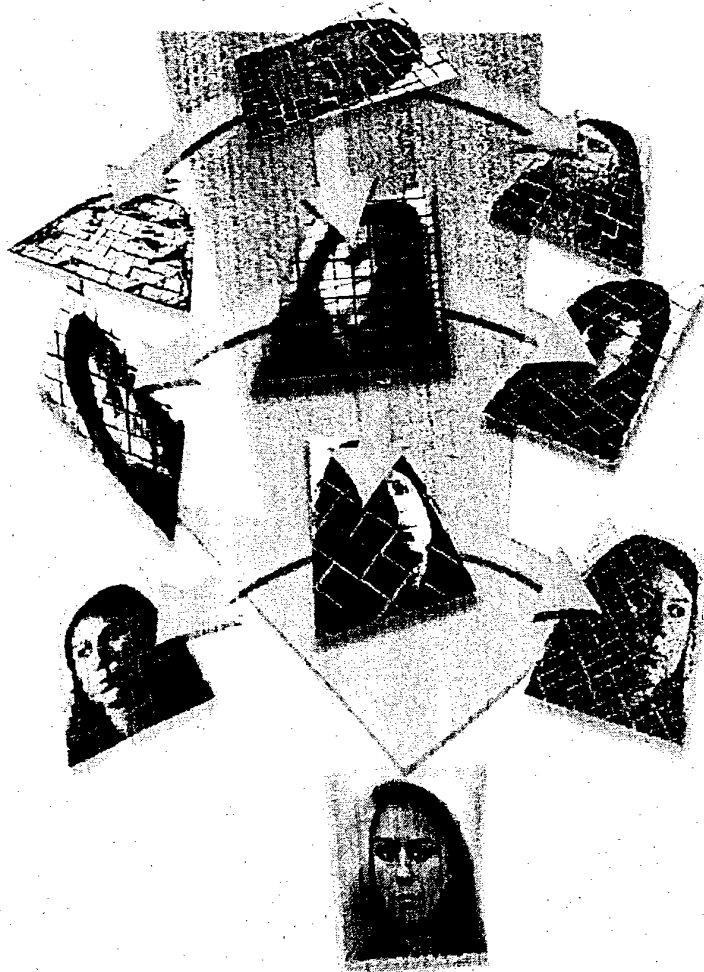


Fig. 3

Fig. 4

Face representation with HFLPCA



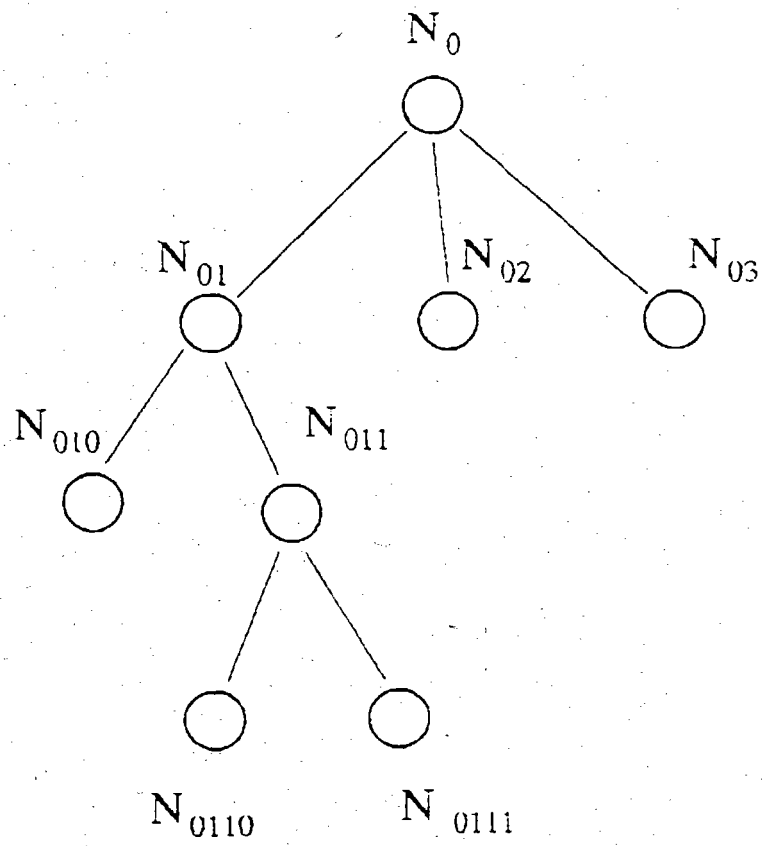


Fig. 5

Computing Residual Data Points for 1D Subspace

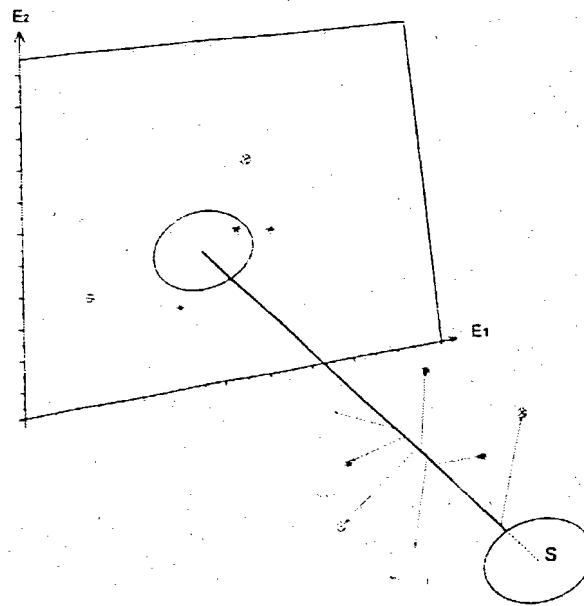


Fig. 6

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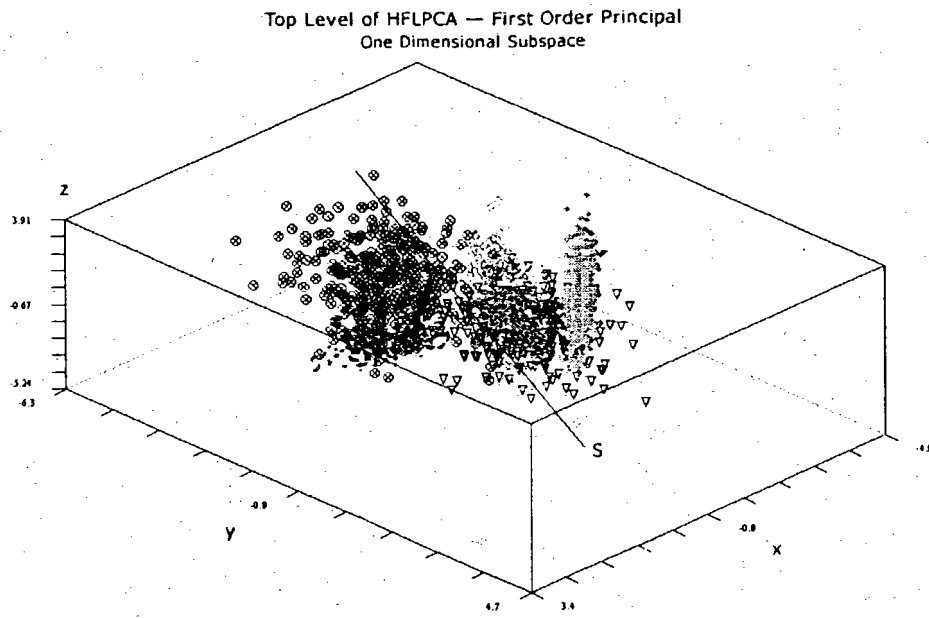


Fig. 7

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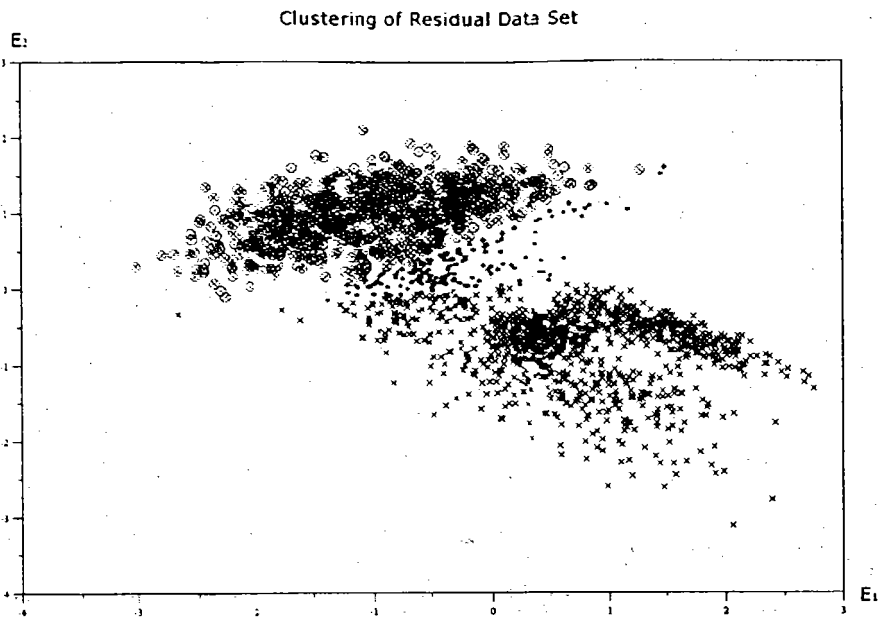


Fig. 8

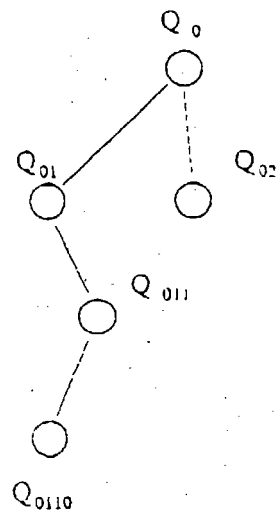


Fig. 9A - Query Descriptor Q

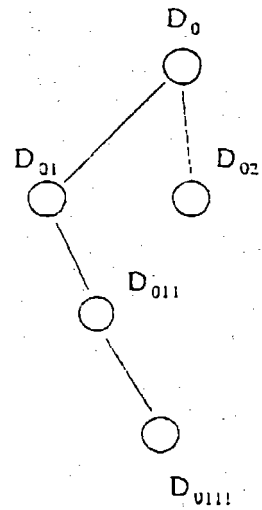


Fig. 9B - Database Descriptor D

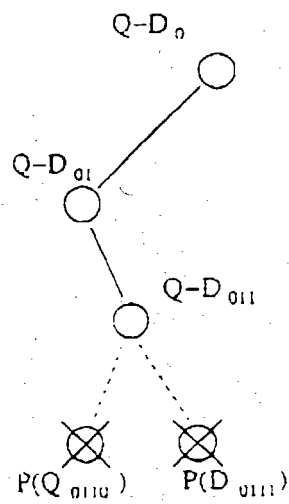


Fig. 9C - Common chain A between the Q and D descriptors

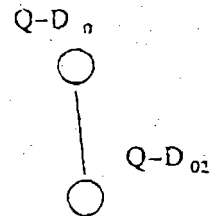


Fig. 9D - Common chain B between the Q and D descriptors

Fig. 9

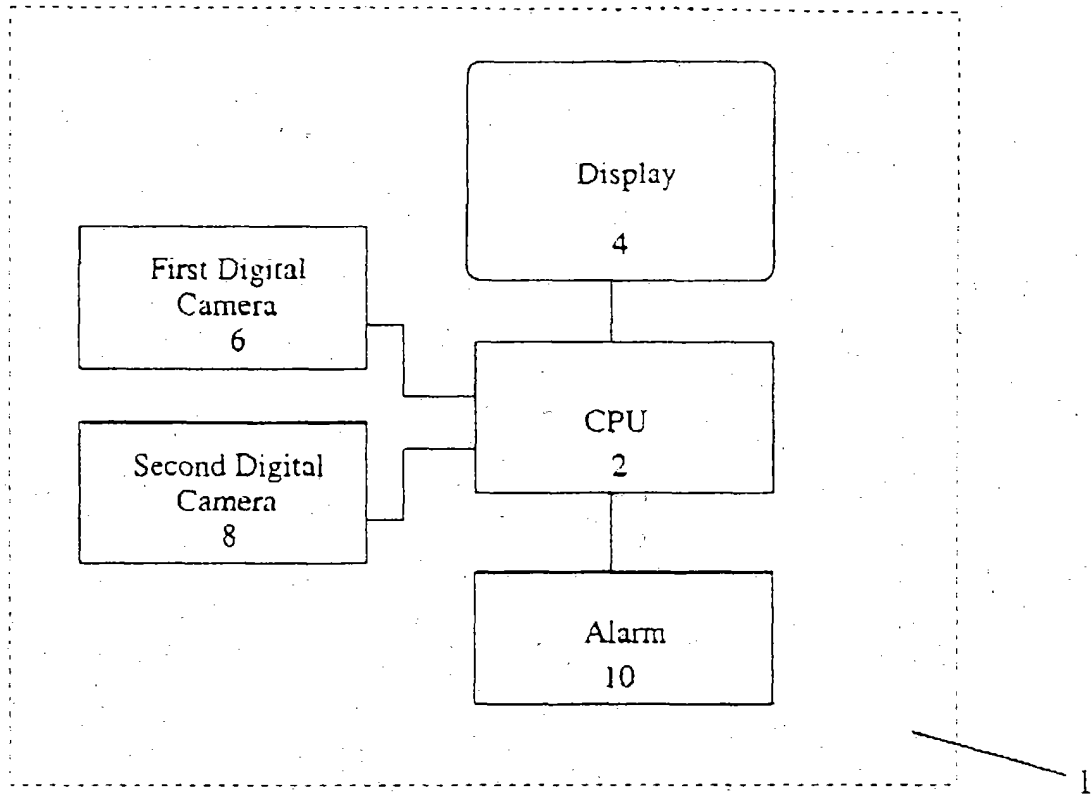


Fig. 10